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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/775,070	0	02/01/2001	Juergen Beuthan	P01,0031	8016
26574	7590	03/23/2005		EXAMINER	
SCHIFF HA	RDIN, L	LP	JUNG, WILLIAM C		
PATENT DE		NT	ART UNIT	PAPER NUMBER	
CHICAGO, 1		-6473	3737		

DATE MAILED: 03/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.						
		Application No.	Applicant(s)					
Office Action Summary		09/775,070	BEUTHAN ET AL.					
	Onice Action Summary	Examiner	Art Unit					
	TI MAII INO DATE (CALL)	William Jung	3737					
Period f	The MAILING DATE of this communication Reply	on appears on the cover sr	eet with the correspondence address	s				
THE - External after of the control	MORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT ensions of time may be available under the provisions of 37 or SIX (6) MONTHS from the mailing date of this communicat e period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory ure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the led patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, ion. s, a reply within the statutory minimu period will apply and will expire SIX r statute, cause the application to be	may a reply be timely filed m of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this commun come ABANDONED (35 U.S.C. § 133).	nication.				
Status								
1)⊠	Responsive to communication(s) filed on	01 February 2001						
·		This action is non-final.						
3)	/—		l matters, prosecution as to the mer	rits is				
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
· _	Claim(s) 1-39 is/are pending in the applic	eation						
٠,,٣	4a) Of the above claim(s) is/are wi		on.					
5)∏	Claim(s) is/are allowed.							
·	Claim(s) <u>1,9,20-24 and 35-39</u> is/are reject	eted.						
·	Claim(s) <u>2-8, 10-19, and 25-34</u> is/are obj							
	Claim(s) are subject to restriction		nt.					
Applicat	ion Papers							
	The specification is objected to by the Exa	aminer						
•	The drawing(s) filed on <u>12 July 2001</u> is/ar		objected to by the Examiner					
. 5/2	Applicant may not request that any objection							
	Replacement drawing sheet(s) including the o	• , ,	•	121(d).				
11)[The oath or declaration is objected to by t							
Priority	under 35 U.S.C. § 119							
•	Acknowledgment is made of a claim for fo	oreian priority under 35 H	S C 8 119(a)-(d) or (f)					
, —	⊠ All b) Some * c) None of:	reign priority under 55 o.	3.0. § 113(a)-(a) 61 (1).					
u,	1.⊠ Certified copies of the priority docu	ments have been receive	d					
	2. Certified copies of the priority docu							
	<u> </u>		been received in this National Stag	e				
	application from the International E		•					
* (See the attached detailed Office action for	, , , ,						
		·						
Attachmer	nt(s)							
	ce of References Cited (PTO-892)	4) ☐ Inte	rview Summary (PTO-413)					
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-94	18) Pap	er No(s)/Mail Date					
	mation Disclosure Statement(s) (PTO-1449 or PTO/ er No(s)/Mail Date <u>12072001</u> .		ice of Informal Patent Application (PTO-152) er:	,				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 9, 20-24, and 35-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Lanza et al* (US 5,138,553) in view of *Chance* (US 6,526,309).

Lanza et al substantially disclose of all claimed features in claims 1, 9, 20-23, 24, and 35-39.

Claims 1, 9, and 24: Lanza et al disclose a method and apparatus where a patient's region of interest is analyzed with edge detection to determine the anatomical characteristic. More specifically, Lanza et al disclose measure the bone radius from a projection image with edge detection analysis to determine the radius (half of diameter and circumference is a function of radius or diameter) (col. 3, line 66 – col. 4, line 12; col. 5, line 30 – col. 8, line 4). However, Lanza et al's device and method uses x-ray projection unlike the current application where light radiation is used to obtain the data. In Chance, the anatomical measurement such as blood vessel in extremities such as hand or finger is imaged with light through transmission (col. 7, line 57 – col. 8, line 6). Although, Lanza et al do not anticipate use of light radiation to determine the diameter, it is obvious under Chance's teaching where the through transmission is possible to obtain image data, especially is extremities of the patient where the light radiation would provide adequate image data. Therefore, it would have been obvious to one having an ordinary skill in

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the art at the time the invention was made to apply Chance's teaching to Lanza et al to achieve the claimed invention.

Claims 20-23 and 35-39: In addition, Chance disclose that the light source is planar and laser diode 20 and 22 (infrared red light) disposed opposite of a detection camera 23 where the light is deflected by 900 (figure 6B) with a mirror 68A and 68B (col. 7, lines 1-16).

Allowable Subject Matter

3. Claims 2-8, 10-19, and 25-34, objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William Jung, Ph.D. whose telephone number is 571-272-4739. The examiner can normally be reached on Mon-Fri 8:30 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WCT

March 19, 2005

BRIAN L. CASLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700